

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P688678

Luminaire Tested: SQ4R-PC3-100D-93050-1-UNV-STD-W-4_3000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PC3-100D-93050-1-UNV-STD-W-4_3000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3941.2 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

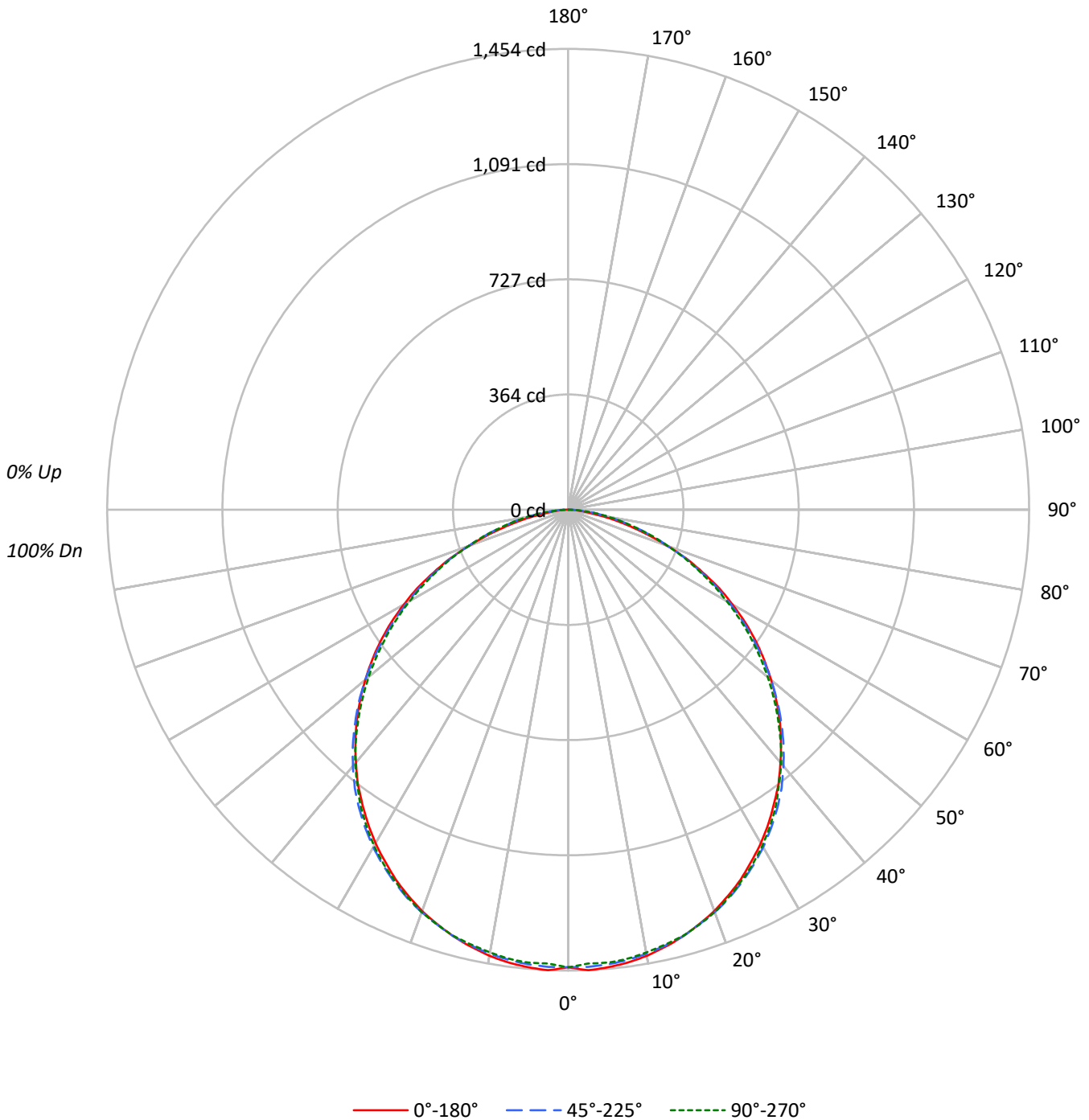
Input Watts (W): 46.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13900	13900	13900
5°	14005	13914	13863
10°	13971	13906	13866
15°	13898	13898	13884
20°	13806	13847	13847
25°	13676	13775	13733
30°	13509	13672	13614
35°	13308	13512	13418
40°	13088	13273	13138
45°	12850	12941	12741
50°	12515	12515	12314
55°	12117	11961	11781
60°	11532	11301	11120
65°	10659	10447	10354
70°	9331	9407	9371
75°	7510	8306	8354
80°	5339	7041	7113
85°	3248	5910	5910

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 12941 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.7	3.5
10°-20°	392.3	10.0
20°-30°	594.1	15.1
30°-40°	712.4	18.1
40°-50°	726.3	18.4
50°-60°	634.0	16.1
60°-70°	453.9	11.5
70°-80°	233.1	5.9
80°-90°	58.3	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1123.2	28.5
0°-40°	1835.6	46.6
0°-60°	3195.9	81.1
0°-90°	3941.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3941.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1444	1444	1444	1444	1444	
5°	1449	1434	1440	1436	1434	138
15°	1394	1382	1394	1394	1393	393
25°	1287	1278	1297	1293	1293	593
35°	1132	1130	1150	1142	1142	709
45°	944	941	950	938	936	727
55°	722	713	713	702	702	644
65°	468	457	459	454	454	463
75°	202	211	223	225	225	217
85°	29	46	54	55	54	40
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1443.8	1443.8	1443.8	1443.8	1443.8
2.5°	1454.5	1438.5	1443.8	1439.8	1433.1
5°	1449.2	1434.5	1439.8	1435.8	1434.5
7.5°	1441.2	1426.5	1433.1	1430.5	1429.1
10°	1429.1	1414.4	1422.5	1419.8	1418.4
12.5°	1413.1	1399.7	1409.1	1406.4	1406.4
15°	1394.4	1382.3	1394.4	1394.4	1393.0
17.5°	1371.6	1361.0	1373.0	1374.3	1373.0
20°	1347.6	1335.6	1351.6	1350.3	1351.6
22.5°	1318.2	1308.8	1326.2	1322.2	1323.5
25°	1287.4	1278.1	1296.8	1292.8	1292.8
27.5°	1251.3	1244.6	1264.7	1260.7	1260.7
30°	1215.2	1208.5	1229.9	1224.6	1224.6
32.5°	1175.1	1171.1	1191.2	1184.5	1184.5
35°	1132.3	1129.7	1149.7	1141.7	1141.7
37.5°	1089.6	1086.9	1105.6	1096.2	1092.2
40°	1041.4	1040.1	1056.1	1045.4	1045.4
42.5°	993.3	992.0	1005.3	992.0	992.0
45°	943.8	941.2	950.5	938.5	935.8
47.5°	890.4	887.7	894.4	881.0	879.7
50°	835.6	832.9	835.6	823.5	822.2
52.5°	779.4	774.1	774.1	762.0	762.0
55°	721.9	712.6	712.6	701.9	701.9
57.5°	661.8	649.7	651.1	641.7	640.4
60°	598.9	585.6	586.9	578.9	577.5
62.5°	537.4	521.4	525.4	516.0	516.0
65°	467.9	457.2	458.6	454.5	454.5
67.5°	403.7	393.0	399.7	395.7	395.7
70°	331.5	324.9	334.2	334.2	332.9
72.5°	264.7	266.0	278.1	278.1	279.4
75°	201.9	211.2	223.3	224.6	224.6
77.5°	144.4	160.4	173.8	173.8	173.8
80°	96.3	115.0	127.0	129.7	128.3
82.5°	57.5	77.5	86.9	89.6	88.2
85°	29.4	45.5	53.5	54.8	53.5
87.5°	10.7	22.7	26.7	26.7	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)